



Carbon Dynamics/Disturbance Breakout



- Fires
 - Anatkuvuk - Rocha: Look at disturbance with carbon fluxes
 - SIF burned and not. Can we use the contrib to scale up airborne regional fluxes
 - Age since burn data layer for ASC?
- Non-fire disturbance
 - Thermokarst formation, thaw slumps and lateral transport
 - Carbon transport from thaw slump into the ecosystem
 - Use DEM to look at active changes of landscape
 - Find and quantify thaw slumps
 - Along rivers move carbon between pools quickly
 - Insect disturbance: pulse over a season. Defoliate vs kill
 - Climate as a disturbance factor?
- Develop scaling methods that can be applied to pan-Arctic/Eurasia?



Other Discussion Points

- Historic Lidar: US Forest Service. Is that on the ASC? Could it be?
- Request for maps of instrument, each level measurement and what it means to a modeler/other instrument teams
- How are the disturbances characterized: John Wang (BU) wants a full list. Fires are easy but what do other disturbances look like spectral-ly?
- Reminder: Airborne retrievals, **footprints**, modeling output, etc. need to be on the ABoVE projection to make it usable.
- Sites with all Airborne products high on priority list for analysis if not all will be analyzed

Airborne Wishlist:

- Spring/fall changing seasons
- Targeted disturbances: Fine scale and large carbon impacts 2